25-1837 A (4-68)

DM 8 55003 / 4

HAZARDOUS MATERIALS DATA SHEET (PLEASE COMPLETE APPLICABLE SECTIONS)

FEB 1 9 1982

1.	PRO	DDUCT NAME, NUMBER, SYNONYM: HM-3 Fluorescent Penetrant [DPM 550-3 - DMS 1908 Grd 3				
2.	1AM	NUFACTURER'S NAME: Sherwin Incorporated				
	MANUFACTURER'S ADDRESS: 5007 East Washington Blvd., Los Angeles, Ca 90022					
4.	PRO	OCEDURE IN CASE OF BREAKAGE OR LEAKAGE: HM-3 is water-soluble. Flush area with water.				
5.	TRA	ANSPORTATION AND STORAGE REQUIREMENTS: No special requirements. Ship and store in standard carbon steel drums.				
6		ST AID TREATMENT: SKIN CONTACT: _ Soap and water followed by hand creams.				
	А.	SKIN CONTACT:				
	В.	EYE CONTACT: Immediately flush with plenty of water for fifteen minutes. Medical attention may be advisable.				
	c.	INHALATION: Remove wictim to fresh air; call a physician. (This hazard is highly unlikely				
		as relatively low volatility is not conducive to high vapor concentrations.)				
	D.	ANTIDOTE IN CASE OF SWALLOWING: Do not induce vomiting. Call a physician.				
7.	<u>PH`</u>	YSIOLOGICAL PROPERTIES:				
	Α.	ACUTE ORAL TOXICITY: Unknown.				
	В.	LOCAL EFFECTS UPON EYES:Irritation.				
	c.	LOCAL EFFECTS UPON SKIN: Defatting.				
	D.	ESTIMATE OF ACUTE HAZARD BY INHALATION (VOLATILE MATERIALS): Not an acute hazard.				

Ε.	WARNING PROPERTIES (ODOR, IRRITA	ATION TO EYES, NOSE OR THE	ROAT): Hydrocarbon odor.
F.	ESTIMATED THRESHOLD LIMIT VALUE MENTAL INDUSTRIAL HYGIENISTS):	E (IF NOT ON CURRENT LIST Estimated 500 ppm	BY AMERICAN CONFERENCE OF GOVERN-
<u>C</u>	HEMICAL AND PHYSICAL PROPERTIES:		
Α.	SPECIFIC GRAVITY (WATER = 1)O	. 8923	B. VAPOR DENSITY (AIR = 1) Apprx 3
c.	VAPOR PRESSURE mm Hg AT 25°C. 1	ess than 1 mm absolute pressure	D. pH <u>not applicable</u>
Ε.	CORROSIVE ACTION ON COMMON MAT LACQUERS, ENAMELS, FABRICS: Note that crazes plexises are considered by the crazes plexises.	Noncorrosive to alumin	um, magnesium, other metals and
F.	DOES THE MATERIAL DECOMPOSE WH	HEN EXPOSED TO AIR? WATER	R? HEAT? STRONG OXIDIZERS?No.
	FOR MIXTURES GIVE THE PERCENTA		
G.	FOR MIXTURES GIVE THE PERCENTA COMPOUND 1. Petroleum Sølvent (Rule 66	GE COMPOSITION OF INGRED	PERCENT 50 to 60%
G.	FOR MIXTURES GIVE THE PERCENTA COMPOUND 1. Petroleum Selvent (Rule 66 by volume 3.6 aromatics.	GE COMPOSITION OF INGRED SExempt) Composition 0.4 olefins, 96.0 satu	PERCENT 50 to 60% arates.
G.	FOR MIXTURES GIVE THE PERCENTA COMPOUND 1. Petroleum Selvent (Rule 66 by volume 3.6 aromatics. 2. Linear Alcohol Ethoxylates	GE COMPOSITION OF INGRED SExempt) Composition 0.4 olefins, 96.0 satu	PERCENT 50 to 60% 10 to 20% 5 to 15%
G.	FOR MIXTURES GIVE THE PERCENTA COMPOUND 1. Petroleum Selvent (Rule 66 by volume 3.6 aromatics. 2. Linear Alcohol Ethoxylates 3. Alkylphenol Ethoxylates 4. Ethylene Glycol Monobutyl	Exempt) Composition 0.4 olefins, 96.0 satus	PERCENT 50 to 60% Trates. 10 to 20% 5 to 15% 3 to 7%
G.	FOR MIXTURES GIVE THE PERCENTA COMPOUND 1. Petroleum Selvent (Rule 66 by volume 3.6 aromatics. 2. Linear Alcohol Ethoxylates 3. Alkylphenol Ethoxylates	Exempt) Composition 0.4 olefins, 96.0 satus	PERCENT 50 to 60% Trates. 10 to 20% 5 to 15%
G.	FOR MIXTURES GIVE THE PERCENTA COMPOUND 1. Petroleum Selvent (Rule 66 by volume 3.6 aromatics. 2. Linear Alcohol Ethoxylates 3. Alkylphenol Ethooxylates 4. Ethylene Glycol Monobutyl 5. Fatty Acid Esters	Exempt) Composition 0.4 olefins, 96.0 satus	PERCENT 50 to 60% Trates. 10 to 20% 5 to 15% 3 to 7% 8 to 20%
G.	FOR MIXTURES GIVE THE PERCENTA COMPOUND 1. Petroleum Selvent (Rule 66 by volume 3.6 aromatics. 2. Linear Alcohol Ethoxylates 3. Alkylphenol Ethooxylates 4. Ethylene Glycol Monobutyl 5. Fatty Acid Esters	Exempt) Composition 0.4 olefins, 96.0 satus	PERCENT 50 to 60% Trates. 10 to 20% 5 to 15% 3 to 7% 8 to 20%
G.	COMPOUND 1. Petroleum Selvent (Rule 66 by volume 3.6 aromatics. 2. Linear Alcohol Ethoxylates 3. Alkylphenol Ethooxylates 4. Ethylene Glycol Monobutyl 5. Fatty Acid Esters 6. Fluorescent Dyestuffs	Exempt) Composition 0.4 olefins, 96.0 satus Ether	PERCENT 50 to 60% Irates. 10 to 20% 5 to 15% 3 to 7% 8 to 20% 0.5 to 5% HOLS, KETONES, CHLORINATED
G.	FOR MIXTURES GIVE THE PERCENTA COMPOUND 1. Petroleum Selvent (Rule 66 by volume 3.6 aromatics. 2. Linear Alcohol Ethoxylates 3. Alkylphenol Ethooxylates 4. Ethylene Glycol Monobutyl 5. Fatty Acid Esters 6. Fluorescent Dyestuffs NOTE: GENERALIZATIONS SUCH AS PETROL HYDROCARBONS, ETC. ARE NOT ADE	Exempt) Composition 0.4 olefins, 96.0 satus Ether EUM HYDROCARBONS, ALCOHOLOGICAL	PERCENT 50 to 60% Trates. 10 to 20% 5 to 15% 3 to 7% 8 to 20% 0.5 to 5% HOLS, KETONES, CHLORINATED EVALUATION. PROPER CHEMICAL

9.	open flame.				
10.	RECOMMENDED PROTECTIVE EQUIPMENT: Rubber or neophrene gloves.				
11.	A. FLASH POINT °F: CLOSED CUP; OPEN CUP; IF F.P. CHANGES DURING EVAPORATION GIVE DATA:				
	B. EXPLOSIVE LIMITS (% VOL. AIR): LOWER 1; UPPER 7				
	C. SUSCEPTIBILITY TO SPONTANEOUS HEATINGS: YES; NOX				
	D. FIRE POINT °F Estimated 210°F.; AUTO IGNITION TEMPERATURE °F Estimated above 500°F.				
	E. VAPOR DENSITY (air - 1) 3.5 approximately				
	F. WHAT PRODUCTS MIGHT BE FORMED IN THE EVENT OF FIRE OR ABNORMAL TEMPERATURES?				
	G. SUITABLE EXTINGUISHING AGENTS: Carbon dioxide, dry chemical or foam.				
12.	INFORMATION FURNISHED BY: A. G. Sherwin				
	TITLE: Manager				
	COMPANY: Sherwin Incorporated				
	ADDRESS: 5007 East Washington Blvd., Los Angeles, Ca 90022				
	DATE: August 19, 1968				
	NOTE: INFORMATION IN REGARD TO A MATERIAL'S COMPOSITION WILL BE TREATED AS CONFIDENTIAL AND USED FOR THE PURPOSE OF PROTECTING THE HEALTH AND SAFETY OF MCDONNELL DOUGLAS CORP. EMPLOYES AND THE SAFEGUARDING OF ITS PROPERTY. IT WILL ALSO BE USED FOR THE PURPOSE OF COMPLYING WITH LOCAL, STATE AND FEDERAL ORDINANCES, LAWS AND CODES, AND REQUIREMENTS OF GOVERNMENTAL AGENCIES.				
	THE COMPLETED FORM SHOULD BE RETURNED TO PURCHASING, DOUGLAS AIRCRAFT DIVISION, LONG				